J						<u> </u>			•	
Work Order Monday, May 30, 20						,				Page 1
Revision ID:	391-021		Accept				S	Setup Star Sto		
	d Tube Assembly 1/2011			Cust Item I Customer:	D:			3.0	*	
•	rocess Plan: C:	Date: -05-30 Date:	Tooling: SPC (Y/N):		ite:		F	Run Star Stop		
Sequence ID/ Work Center ID	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr D3391	Revision Nbr Rev H					×				 ,
100 Skidtubes	Skidtubes Memo		0.00						•	Bup
Skidtubes	Cut extr	usion to 46.52 +0.010 -0.020						_		·
	BENDING MACHIN	NE - SKIDTUBES	0.00		. ·	•	7	\bigcirc	11-6	· Z
CNC Bend 1 CNC Delta 100 Bender	Memo Bend as	per Dwg D3391 Using Bend Pr	0.00 og 3391021							-

120

Quality Control

QC5- Inspect part completeness to step on W/O

Memo

0.00

0.00

1 & BEI1/06/02

W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHAI	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector					
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Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	_ Date: _	•. · · · · · · · · · · · · · · · · · · ·				
	R	esolution:	Disposition	QA: N/C Cld	osed:		Date: _						
NCR:				R NON-CONFORMAL Corrective Action Section	NCE (NCR)		~ :	<u></u>				
DATE	STEP	Description of NC		1 B	Verific	cation	Approval	Approval					
DAIL	JIL.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date			Chief Eng	QC Inspector				
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Monday, May 30, 2011 2:41:24 PM



Page 2

Item ID:

D3391-021

Accept



Setup Start



Revision ID:

Item Name:

Fwd Tube Assembly

Start Date:

5/31/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: Date: Tooling:

Date:

Run

Start

Stop



Required Date: 6/10/2011

Date: SPC (Y/N):

Date:

Stop

Sequence ID/

Work Center ID

130

HAAS CNC vertical machine #1

Operation Description

Set Up/ **Run Hours**

0.00

0.00

Tool ID

onlidoclos

Tool # Plan Code

Accept Qty

Reject Qty

Reject Number Stamp

Insp.

HAAS 1

1-Machine as per Folio FA590 Rev. A-A & Dwg D3391 Rev. H

Identify as D3391-1

HAAS CNC VERTICAL MACHINING #1

2-Deburr

Memo

140

QC Quality Control QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

and ulorelog

150

Mill Conv

Conventional Milling Machine

0.00

CONVENTIONAL MILLING MACHINE

Memo

Drill X1 Aft cap as per Dwg D3391 .1875" dia

7 11/06/10

Duit Au	oopaoc	Liu									
W/O:			WC	ORK ORDER CHAN	IGES						
DATE	STEP	PRO	PROCEDURE CHANGE						Approval Chief Eng / Prod Mgr	Approval QC Inspector	
- <u>-</u> -											
Part No	:	PAR #:	Fault Category: N				lo DQ	A :	Date:		
	R	esolution:	Dispositio	n:	QA: I	WC Clos	sed:		Date:		
NCR:			WORK ORD	ER NON-CONFORI	MANCE	(NCR)					
DATE	STEP	Description of NC		ection B		Verific	cation		Approval		
DAIL	JILF	Section A	Initial Chief Eng	Action Description Chief Eng	n.	Sign & Date	Secti	on C	Approval Chief Eng	QC Inspector	
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Monday, May 30, 2011 2:41:24 PM



Page 3

Item ID:

D3391-021

Accept

Accept

Qty

Setup Start

Stop



Revision ID:

Item Name:

Fwd Tube Assembly

Start Date:

Required Date: 6/10/2011

5/31/2011

QC:

Start Oty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: Date:

Date:

Tooling: SPC (Y/N): Date:

Date:

Run

Start



Stop

Sequence ID/

Work Center ID

160

OC

Quality Control

Operation Description

QC2- Inspect parts off machine FAI/FAIB

Run Hours

0.00

0.00

Set Up/

11/06/10

Code

Tool # Plan

Reject Qty

Reject Insp. Number Stamp

170

QC

Quality Control

QC8- Inspect parts - second check

Memo

Memo

0.00

JL 11/06/13

0.00

- 4	p									
W/O:			W	ORK ORDER CHANG	ES					
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву		Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cat	egory:	_ NCR: Y	es N	o DQ	A:	Date:	
	R	esolution:	Dispositi	_ QA: N/C	Clos	sed:	Date:			
NCR:			WORK ORI	DER NON-CONFORMA	ANCE (N	CR)				
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	Sig	gn & ate	Verific Secti	cation on C	Approval Chief Eng	Approval QC Inspector
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Monday, May 30, 2011 2:41:25 PM

Item	ID:
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D3391-021

Accept



Setup Start



Revision ID:

Item Name:

Fwd Tube Assembly

Start Date:

5/31/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Process Plan:

Date: Tooling:

Date:

Run

Start

Stop



Approvals:

Required Date: 6/10/2011

QC:

Date: _____

SPC (Y/N):

Date:

Stop

11-6-13



Sequence ID/ Work Center ID

180



Skidtubes

Skidtubes

Operation Description

Skidtubes

Set Up/ **Run Hours**

0.00

0.00

Tool ID

Tool # Plan

Accept Qty Code

Reject Qty

Reject Number Stamp

Insp.

Memo

1-Drill float bag holes as per Dwg D3391 using DT8798(Do not open tow cap holes to finish size)

(ONLY DRILL HOLES MARKED "A")

2-Drill Remaining two holes for tow cap using DT 8819 Locating off of .1875" holes drilled in previous step

3-Open tow cap holes to .208" as per Dwg D3391

4-Open Tow Ring hole to .640" as per Dwg D3391

5- open float bag holes 0.328" and counter sink as per dwg D339

6-Deburr & Scribe Batch number Inside aft end.

7-Transfer drill D3391-021 with D3391-023

QC5- Inspect part completeness to step on W/O

Memo

0.00

OC

Quality Control

190

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W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHAI	IGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
				,									
Part No	:	PAR #:	Fault Categ	jory:	NCF	R: Yes I	10 D Ø	A:	Date: _	·,			
Resolution:			Disposition	l:	QA:	N/C Clo	sed:		Date: _	·			
NCR:			WORK ORDE	R NON-CONFORM	ANCE	(NCR))						
DATE	STEP	Description of NC Section A				Sign & Date			Approval Chief Eng	Approval QC Inspector			
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Page 5

Item ID:

Monday, May 30, 2011 2:41:25 PM

D3391-021 Accept

Setup Start

Stop



Revision ID:

Item Name:

Fwd Tube Assembly

Start Date: 5/31/2011

QC:

Required Date: 6/10/2011

Start Qty: 1.00 Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date: Tooling:

Date:

SPC (Y/N):

Date: Date:

Tool # Plan

Code

Start

Stop



Insp.

Stamp

Reject

Qty

Sequence ID/

Work Center ID

200

HandFinish

Hand Finishing

Operation **Description**

Chemical Conversion Coat per QSI005 4.1

Run Hours

Set Up/

0.00

0.00

Run

Accept

Qty



Reject

Number

210

OC

Quality Control

QC3- Inspect Part Finish

0.00

Memo

Memo

0.00

220

Skidtubes

Skidtubes

Skidtubes

0.00

0.00

Memo 1-instal spacers as per dwg D3391

A/R Magnabond 6398 batch: M 11 exp. date: 12hrs. as per QS1015

2- grind crossbolt flush 3-back drill crossbolt if necessary

3 wh 11/06/16

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W/O:			W	ORK ORDER CHANG	GES					
DATE	STEP	PRO	OCEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	R	esolution:	Disposit	QA: I	VC Clo	sed:		Date: _		
NCR:		1	WORK OR	DER NON-CONFORM	ANCE	(NCR))			
DATE	STEP	Description of NC			Section B V			cation	Approval	Approval
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Item ID:

Monday, May 30, 2011 2:41:25 PM

Accept

Setup Start



Revision ID:

Item Name:

Fwd Tube Assembly

Start Date:

Required Date: 6/10/2011

5/31/2011

D3391-021

Start Qty: 1.00

Req'd Qty: 1.00



Date: _____

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: ___ Date:

Tooling:

SPC (Y/N):

Date:

Date:

Tool # Plan

Code

Accept

Qty

Stop

Reject

Qty

Sequence ID/

Work Center ID

Operation **Description**

QC:

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

o whore las

Run

Start

Stop

Number Stamp

Insp.

Reject

230

Quality Control

Pressure Wash per QSI005 4.3

Memo

0.00

0.00

HandFinish

Hand Finishing

ND REALODINE AS PER PAR09-043

240

235

Powdercoat

Powder Coating

0.00

0.00

i Bl 11-6-20

W/O:			_	W	ORK ORDER CHANG	GES					
DATE	STEP		PRO	CEDURE CHA	NGE	Ву	Dat	e Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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						QA: N/C Closed: Date					
NCR:				WORK ORD	ER NON-CONFORM	MANCE (N	CR)	,	•		
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Page 7

Item ID:

D3391-021

Accept

Setup Start

Stop



Revision ID:

Item Name:

Fwd Tube Assembly

Start Date:

Required Date: 6/10/2011

5/31/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan: _____ Date: ____ Tooling:

Date:

Run

Start



QC:

Date:

SPC (Y/N):

Set Up/

Date:

Stop

Sequence ID/ **Work Center ID**

250

QC

Quality Control

Operation Description

QC3- Inspect Part Finish

Memo

Run Hours

0.00

0.00

Code

Tool # Plan

Accept Qty

Reject Qty

Reject Number

Insp. Stamp

255

Skidtubes

Skidtubes

Skidtubes

Memo

0.00

0.00

Memo

**** install D3591-1 spacer as per DSI9364 and wearplate and gasket as per DWG ****

257

Quality Control

QC5- Inspect part completeness to step on W/O

	TOPAGE											
W/O:			W	ORK ORDER CHANGE	S							
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	:	PAR #:	Fault Cat	egory:	NCR: Yes No DQA: Date:							
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NCR:			WORK ORI	DER NON-CONFORMA	NCE (NCF	?)						
DATE	STEP	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval			
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Monday, May 30, 2011 2:41:25 PM



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Item ID:

D3391-021

Accept

Setup Start

Stop



Revision ID:

Item Name:

Fwd Tube Assembly

Start Date:

5/31/2011

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

Stop



Number Stamp

Required Date: 6/10/2011

QC:

Operation

Description

Date:

SPC (Y/N):

Date:

Reject

Qty

Accept

Qty

Reject Insp.

Sequence ID/

Work Center ID

260

Packaging

Memo

Set Up/

Run Hours

Run Hours
0.00 D42- 742-042/B7018(

Tool # Plan

Code

Packaging

280

QC Quality Control QC21- Final Inspection - Work Order Release

Identify as per dwg & Stock Location: W [O

0.00

0.00

Memo

0.00

MF -06-22

W/O:			V	VORK ORDER CHANGE	S				
DATE	STEP	PRO	OCEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Picklist Print

Monday, May 30, 2011 2:41:17 PM

Work Order ID: 70178

D3391-021 Parent Item:

Parent Item Name: Fwd Tube Assembly

Start Date: 5/31/2011

Start Qty: 1.00

Required Date: 6/10/2011

Required Qty: 1.00

Comments:

IPP A□05.09.13□New issue□

KJ/JLM□

IPP B□06.02.10□Dwg rev.D ecn 773 □EC□ IPP C□06.05.02□Added inspections □EC□

IPP D 07.03.13 rev F dwg

EC

IPP E 07.11.07 revG dwg ecn1053P

EC verified by: DD

IPP Rev:f ECN 1056 07-11-12 DD verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev J 09.02.02 added hardware EC verifified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6013-047	III	Manufactured	No			100	Each	23.0000	1	1			
				Location		Loc		Loc Code					
				LG	26547		23 23		_	1	_	B	11/36/01
D3670-4-200		Manufactured	No	(-		220	Each	59.0000	4	4	_	معيه	(100)
SPACER													
				<u>Location</u>		Loc (·	Loc Code				ر٥.	1/1/1/10
				LG	68950		59 59			4	_	Wh	11/06/15
D3401-041 Tow Cap Assembly		Manufactured	No	. •		255	Each	10.0000	1	M	ulocl	21	
Tow cup i issemely				Location		Loc (<u>Oty</u>	Loc Code					
				FP007	51505		10 10		_	<u>, x (</u>	_		

W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHAI	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Part No		PAR #:											
	R	esolution:	Disposition	:	QA: N/C CI	osed:		Date: _					
NCR:		1	WORK ORDE	R NON-CONFORMA	NCE (NCR	()							
DATE	STEP	Description of NC		Corrective Action Section B			cation	Approval	Approval				
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Monday, May 30, 2011 2:41:18 PM

Work Order ID: 70178 Parent Item: D3391-021 Parent Item Name: Fwd Tube Assembly D3564-13 Wearshoe D3566-13 Gasket



Start Date: 5/31/2011

Required Date: 6/10/2011

Start Qty: 1.00

Required Qty: 1.00

Each 30.0000

Loc Code

Location	<u>Lo</u>	c Qty
FP016		18
69280	,	18
FP017	,	12
66805		12
	255	Each

255

44.0000

Coalcat	

No

Location

No

No

FΡ 69281 FP014 68341 255

Loc Oty Loc Code 26 26 18 18

10 10

Each 0.0000



NAS1149C0332

AN3C4A

AN960C10L

Purchased No

Purchased

Manufactured

Manufactured

11117887 255 Each

2,337.000

15 120111 H (01X)



<u>Location</u>	Loc Oty	Loc Code	
ST350	2337		***
117094	955		<u> </u>
117313	82		
117688	800		
117795	500		

W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cate	egory:	NCB: Vas	No DO	Δ.	Date:	,
i dit ito		esolution:							
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	on B Sign Date	& Sect	cation ion C	Approval Chief Eng	Approval QC inspector
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Picklist Print

Monday, May 30, 2011 2:41:18 PM

Work Order ID: 70178

Parent Item:

D3391-021

Parent Item Name: Fwd Tube Assembly



Start Date: 5/31/2011

Required Date: 6/10/2011

Page 3

Start Qty: 1.00

Required Qty: 1.00

D3672-1

INSERT

Phenolic Washer

Manufactured

No

255

Each

1,204.000

ulocel 21

		Location	Loc Qty	Loc Code	
		ST074	1204		<u> </u>
		<u>6417</u> 7	704		<u> </u>
		66821	500		
AELS-1032-130	Purchased No		255 Each	0.0000 2	2
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AELS-1032-225	Purchased No		255 Each	0.0000 10 77 \4	con les mastre

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NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
DAIL	JILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		on C	Chief Eng	QC Inspector
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DART AEROSPACE LTD	Work Order:	70178
Description: Float Skidtube (412)	Part Number:	D3391-1
Inspection Dwg: D3391 Rev: H		Page 1 of 1

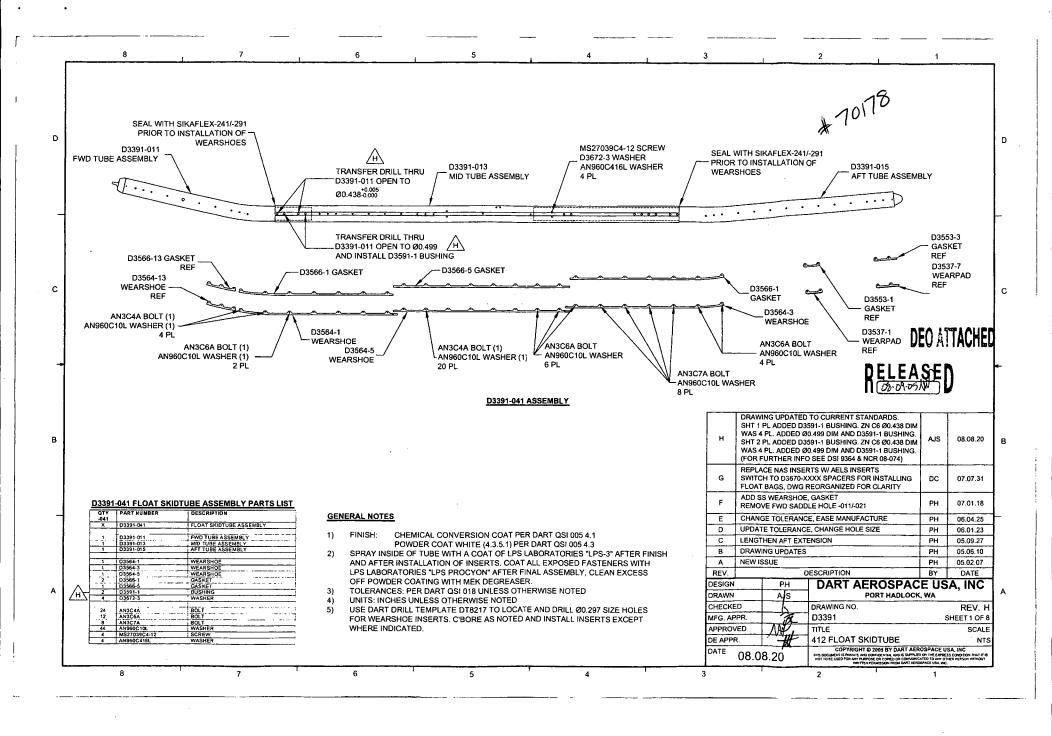
FIRST ARTICLE INSPECTION CHECKLIST

	X	First Arti	cle	Proto	type
Drawing		Actual			Method

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.687	+0.010/-0.000	688			Vernell-	2
3.590	+0.025/-0.010	3-608			11	·
3.300	+0.040/-0.000	3.3/3			(\	
1.429	+0.040/-0.060	1.400			• `	
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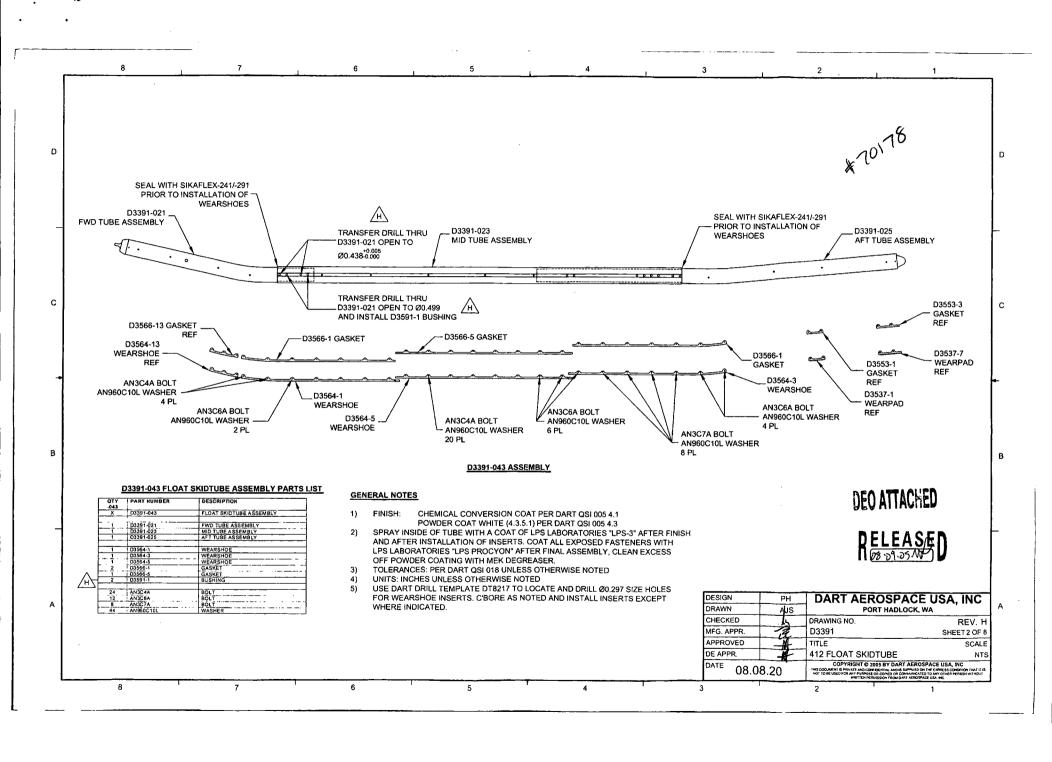
Measured by:	and to	Audited by:	42	Prototype Approval:	N/A
Date:	11/04/08	Date:	11/06/13	Date:	N/A

Rev	Date	Change Change	Revised by	Approved
Α	06.04.27	New Issue P/O D3391-011/-021	KJ/JLM	
В	06.06.19	Tolerances revised per D3391 Rev. E	KJ/JLM	
С	07.03.21	Dimensions removed per Dwg rev. F	KJ/JLM	
D	07.11.23	Dwg Rev. updated	KJ/EC/DD	
E	09.12.14	Dwg Rev updated	KJ \$	M



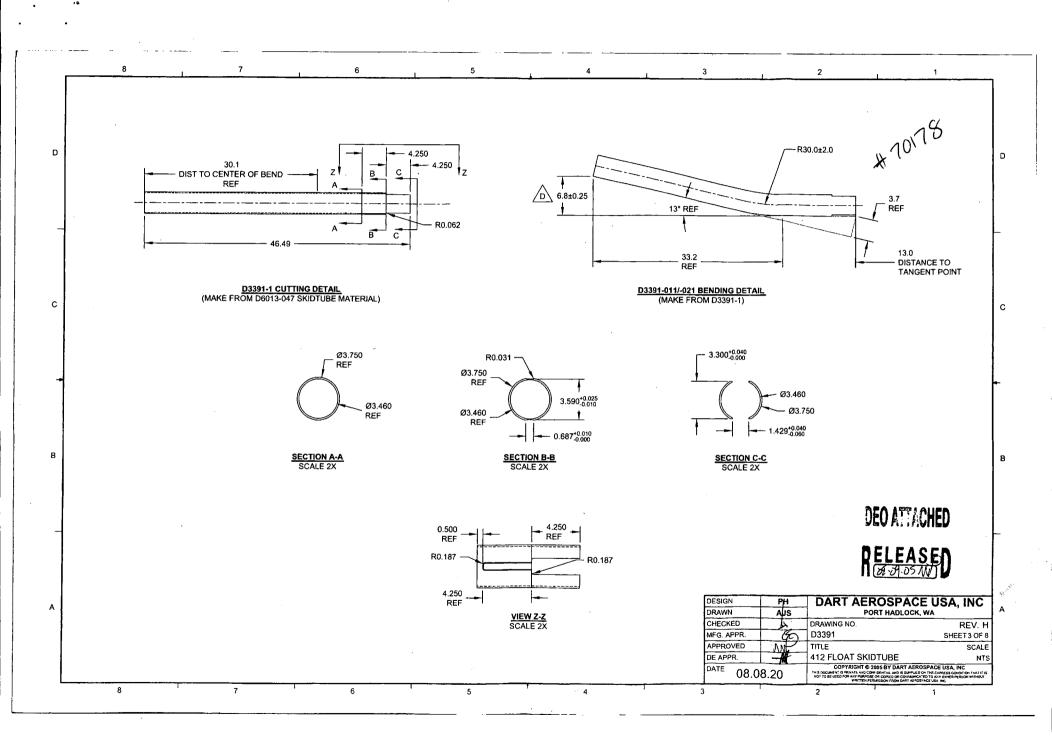
W/O:			WORK ORDER CHANGES									
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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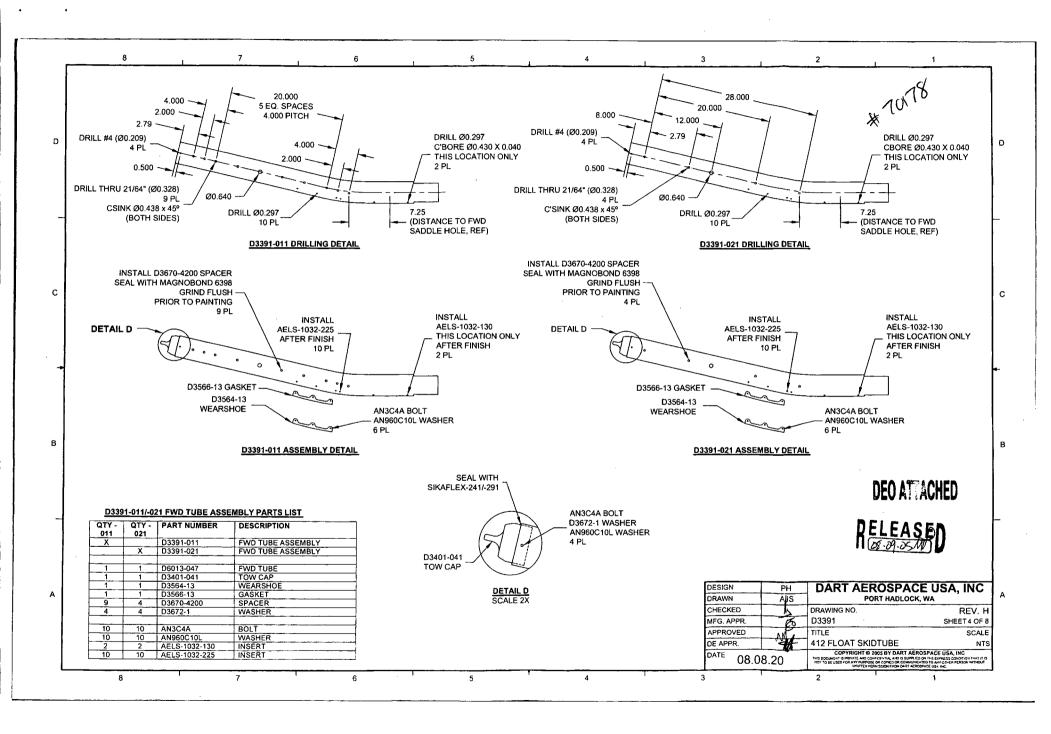
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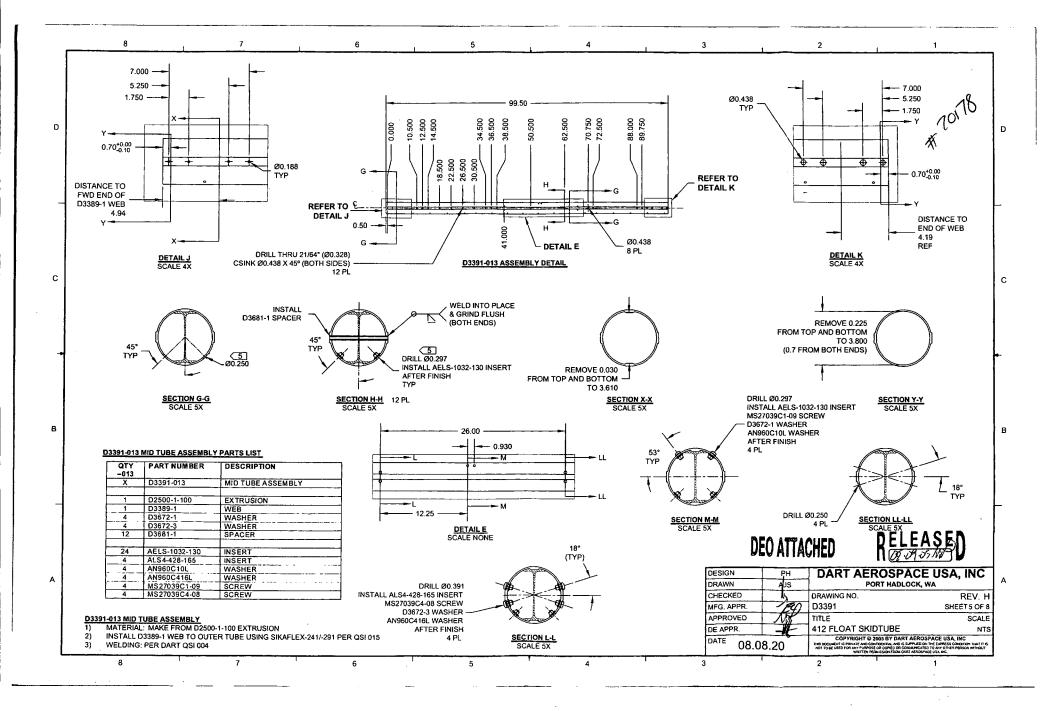
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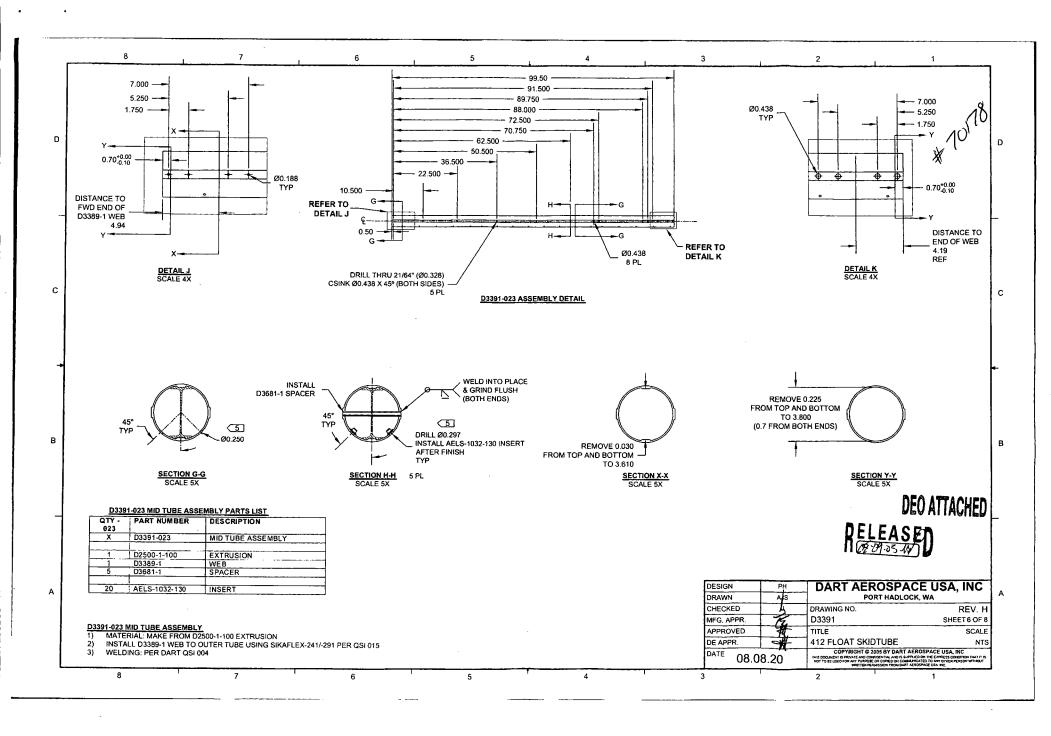
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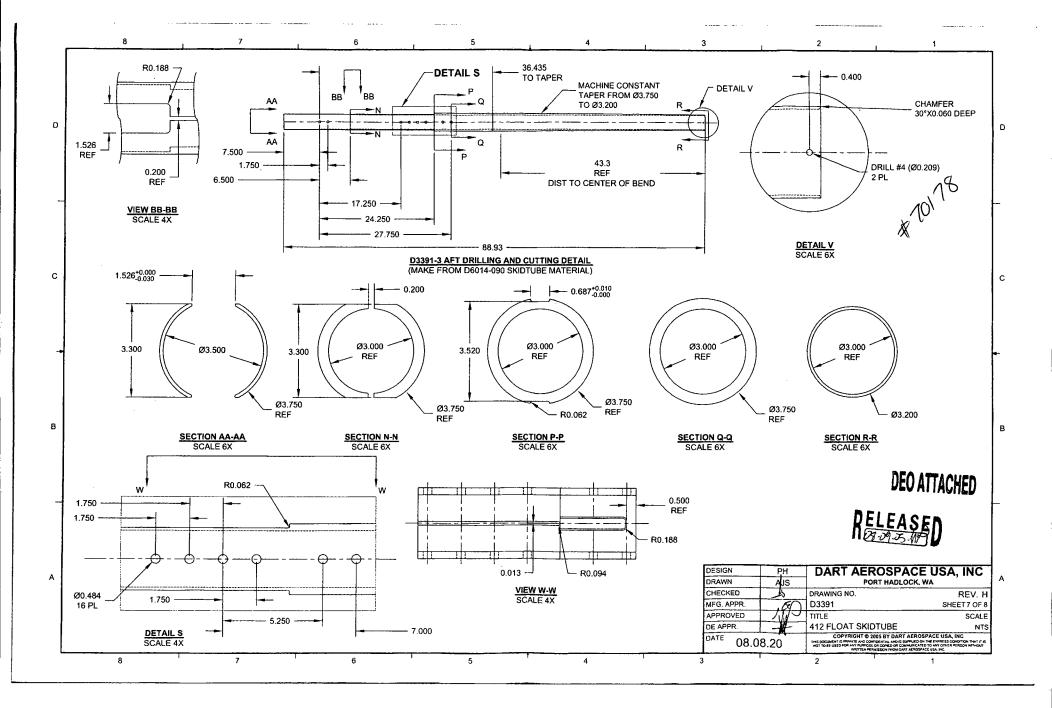
NOTE: Date & initial all entries

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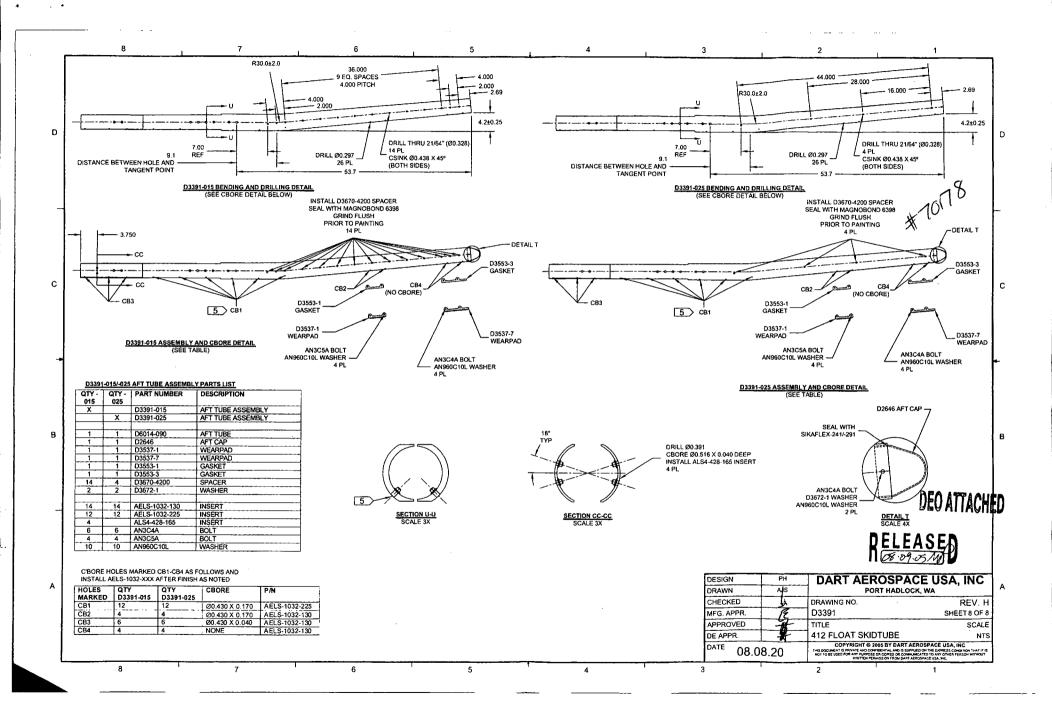
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DRAWING N	10.	TITLE		REV. H DA	ART AEROS	SPACE USA, IN	IC D.E.O. NO.		SHEET NO).	SCALE
D3391		412 FLOAT	SKIDTUBE		ENGINEE	RING ORDER	D3391-H-1		SHEET 1 OF	, 1	NTS
DRAWN	d)	CHECKED	<u>L</u>	MFG. APPR.	N .	APPROVED MAL	DE	E APPR.	5	
DATE	09.09.	23	DATE 04	1.04,24	DATE 09	109/25	DATE 29/09/	30 06	ATE OA	09/30	

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

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